

Intel Corporation  
2200 Mission College Blvd.  
Santa Clara, CA 95052

Intel Legal Team

RECEIVED  
CENTRAL FAX CENTER  
SEP 15 2005

# Fax

Page 1 of 12

Date: September 15, 2005

To: Jonathan Johnson      Fax: 571-273-8300      Phone: 571-272-1177  
United States Patent and Trademark Office

From: Michael D. Plimier      Fax: 408-765-4087      Phone: 408-765-7857

Subject:      Amendment and Response for Application Serial No. 10/717,348

**A CONFIRMATION COPY OF THIS DOCUMENT:**

WILL NOT BE SENT

Application No.: 10/717,348  
Filing Date: November 18, 2003  
First Named Inventor: J.S. Lewis et al.  
Group Art Unit: 1725  
Examiner Name: Johnson, Jonathan J.  
Attorney Docket No.: P17609

**Enclosures:**

1. Transmittal Form (1 page)
2. Fee Transmittal for FY 2005 (1 page in duplicate)
3. Amendment and Response (8 pages).

**Important Notice**

This information is intended to be for the use of the individual or entity named on this transmittal sheet. If you are not the intended recipient, be aware that any disclosure, copying, distribution, or use of the contents of this faxed information is prohibited. If you have received this facsimile in error, please notify the sender by telephone immediately so that arrangements can be made for the retrieval of the original document at no cost to you.

PTO/55/21 (02-04)  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
Approved for use through 07/31/2005. CMS 0081-0001  
Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission 11

Application Number 10/717,348  
Filing Date November 18, 2003  
First Named Inventor J.S. Lewis et al.  
Art Unit 1725  
Examiner Name Johnson, Jonathan J.  
Attorney Docket Number P17809

**ENCLOSURES (Check all that apply)**

☒ Fee Transmittal Form  
☐ Fee Attached  
☒ Amendment/Reply  
☐ After Final  
☐ Affidavits/Declaration(s)  
☐ Extension of Time Request  
☐ Express Abandonment Request  
☐ Information Disclosure Statement  
☐ Certified Copy of Priority Document(s)  
☐ Reply to Missing Parts/Incomplete Application  
☐ Reply to Missing Parts under 37 CFR 1.62 or 1.63

☐ Drawing(s)  
☐ Licensing-related Papers  
☐ Petition  
☐ Petition to Convert to a Provisional Application  
☐ Power of Attorney, Revocation  
☐ Change of Correspondence Address  
☐ Terminal Disclaimer  
☐ Request for Refund  
☐ CD, Number of CD(s)  
☐ Landscape Table on CD

☐ After Allowance Communication to TC  
☐ Appeal Communication to Board of Appeals and Interferences  
☐ Appeal Communication to TC  
☐ Appeal Notice, Brief, Reply Brief  
☐ Proprietary Information  
☐ Status Letter  
☐ Other Enclosure(s) (please identify below):

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name Intel Corporation  
Signature   
Printed name Michael D. Pflimier  
Date September 15, 2005 Reg. No. 43,004

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with the date shown below:

Signature   
Typed or printed name Michael D. Pflimier Date September 15, 2005

This collection of information is required by 37 CFR 1.6. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/55/17 (12-04v2)  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
Approved for use through 07/31/2005. CMS 0081-0002  
Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4610).

**FEE TRANSMITTAL For FY 2005**

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 0.00

**METHOD OF PAYMENT (check all that apply)**

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):  
☒ Deposit Account Deposit Account Number: 50-0221 Deposit Account Name: Intel Corporation  
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)  
☒ Charge fee(s) indicated below  
☐ Charge fee(s) indicated below, except for the filing fee  
☐ Credit any overpayments

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2030.

**FEE CALCULATION**

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	Fee (\$)	Small Entity Fee (\$)	SEARCH FEES	Small Entity Fee (\$)	EXAMINATION FEES	Small Entity Fee (\$)	Fees Paid (\$)
Utility	300	150	300	230	200	100	0
Design	200	100	100	30	130	65	0
Plant	200	100	300	150	160	80	0
Reissue	300	150	500	230	600	300	0
Provisional	200	100	0	0	0	0	0

2. EXCESS CLAIM FEES

Each claim over 20 (including Reissues)  
Each independent claim over 3 (including Reissues)  
Multiple dependent claims

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
HP = highest number of total claims paid for, if greater than 20.			0
Indep. Claims = 3 or HP = 3			0
HP = highest number of independent claims paid for, if greater than 3.			0

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.32(c)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(O) and 37 CFR 1.16(a).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
100			0	0
150			0	0

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)  
Other (e.g., late filing surcharge):

**SUBMITTED BY**

Signature   
Name (Print/Type) Michael D. Pflimier  
Registration No. (Attorney/Agent) 43,004  
Telephone 408-766-7857  
Date September 15, 2005

This collection of information is required by 37 CFR 1.156. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

BEST AVAILABLE COPY

SEP 15 2005

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2008. OMB 0561-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/04/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). <b>FEE TRANSMITTAL</b> <b>For FY 2005</b>		<b>Complete If Known</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	10/717,348
<b>TOTAL AMOUNT OF PAYMENT</b> (\$) 0.00		Filing Date	November 18, 2003
		First Named Inventor	J.S. Lewis et al.
		Examiner Name	Johnson, Jonathan J.
		Art Unit	1725
		Attorney Docket No.	P17609

**METHOD OF PAYMENT** (check all that apply)

☐ Check 
 ☐ Credit Card 
 ☐ Money Order 
 ☐ None 
 ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: 50-0221 Deposit Account Name: Intel Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below 
 ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.18 and 1.17 
 ☒ Credit any overpayments

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	0
Design	200	100	100	50	130	65	0
Plant	200	100	300	150	160	80	0
Reissue	300	150	500	250	600	300	0
Provisional	200	100	0	0	0	0	0

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

**Total Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**  
 - 20 or HP = \_\_\_\_\_ x \_\_\_\_\_ = 0  
 HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**  
 - 3 or HP = \_\_\_\_\_ x \_\_\_\_\_ = 0  
 HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____	_____	_____

- 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = 0

**4. OTHER FEE(S)**

	Fees Paid (\$)
Non-English Specification. \$130 fee (no small entity discount)	0
Other (e.g., late filing surcharge):	0

<b>SUBMITTED BY</b>			
Signature		Registration No. (Attorney/Agent)	43,004
Name (Print/Type)	Michael D. Plimier	Telephone	408-765-7857
		Date	September 15, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004,  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4918).**FEE TRANSMITTAL  
For FY 2005**☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 0.00

**Complete If Known**

Application Number	10/717,348
Filing Date	November 18, 2003
First Named Inventor	J.S. Lewis et al.
Examiner Name	Johnson, Jonathan J.
Art Unit	1725
Attorney Docket No.	P17609

**METHOD OF PAYMENT (check all that apply)**

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: 50-0221 Deposit Account Name: Intel Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	0
Design	200	100	100	50	130	65	0
Plant	200	100	300	150	160	80	0
Reissue	300	150	500	250	600	300	0
Provisional	200	100	0	0	0	0	0

**2. EXCESS CLAIM FEES****Fee Description**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
- 20 or HP =	x	=	0

HP = highest number of total claims paid for, if greater than 20.

<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
- 3 or HP =	x	=	0

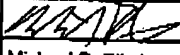
HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(c)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
- 100 =	/ 50 =	(round up to a whole number) x	=	0

**4. OTHER FEE(S)**Non-English Specification, \$130 fee (no small entity discount) **Fee Paid (\$)**Other (e.g., late filing surcharge): **Fee Paid (\$)****SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	43,004	Telephone	408-765-7857
Name (Print/Type)	Michael D. Plimler	Date			
September 15, 2005					

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-3198 and select option 2.

RECEIVED  
CENTRAL FAX CENTER

SEP 15 2005

Attorney's Docket No.: P17609

Patent

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Application of:

J.S. Lewis et al.

U.S. Serial No: 10/717,348

Filed: November 18, 2003

For: **VIA HEAT SINK MATERIAL**

Examiner: Johnson, Jonathan J.

Art Unit: 1725

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT AND RESPONSE**

Dear Sir:

This is in response to the Office Action mailed June 21, 2005. Applicant respectfully requests the Examiner to enter the following amendments and consider the following remarks.

**Amendments to the Claims** are reflected in the listing of claims that begins on page 2 of this paper. **Remarks/Arguments** begin on page 6 of this paper.